School Height and Weight Report

For South Dakota Students 2005-2006 School Year



PREFACE

School Height and Weight Report, For South Dakota Students, 2005-2006 School Year was prepared by the South Dakota Department of Health.

This report is divided into 18 sections which contain data on childhood obesity as well as guidelines and references for preventing and reversing the childhood obesity epidemic. Sections of note are: Executive Summary, which highlights data at a glance; Technical Notes, which explains the terminology and BMI for children and adolescents; and Regional Data, which examines the data by the Department of Education's regions.

Also included are instructions and a form for any school interested in submitting data in the future.

Any questions concerning the data may be directed to the following office within the South Dakota Department of Health:

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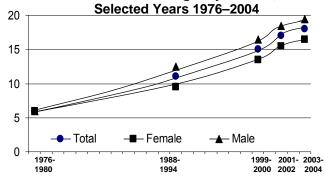
Executive Summary

This report summarizes data collected on school-age children and adolescents during the 2005-2006 school year and also includes data collected since the start of the project in the 1998-1999 school year.

Over the eight years that this data has been collected:

- Sample size has grown from 13 percent of the state's students to 33.8 percent.
- School submissions have grown from 110 schools in the first report to 276 schools in the current report.
- For the last four years, no age group has been over the expected 5th percentile for short stature.
- No age group has been over the expected 5 percent below the 5th percentile in BMI-for-age or underweight.
- There has been a slight increase in the "at risk for overweight" category from 16.6 percent in 2004-2005 to 16.9 percent in 2005-2006.
- By race, American Indians decreased in the "at risk for overweight" category from 20.4 percent in 1998-1999 to 19.5 percent in 2005-2006.
- Overall, there has been an increase in the "overweight" category from 15.1 percent in 1998-1999 to 16.9 percent in 2005-2006.
- By race, American Indians increased in the "overweight" category from 21.1 percent in 1998-1999 to 27.1 percent in 2005-2006.

Figure 1: US Percentage of Children Ages 6–17 who are Overweight by Gender,



Source: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health and Nutrition

Results from the 1999-2004 National Health Nutrition Examination Survey and (NHANES), suggest that the increasing percentage of overweight children is a public health challenge. In 1976-1980, only 6 percent of children ages 6-17 were overweight. By 1988-1994, this proportion had risen to 11 percent, and continued to rise to 15 percent in 1999-2000. In 2001-2002. 17 percent of children 2003-2004. overweight and in proportion was 18 percent. The findings suggest the likelihood of another generation of children and adolescents becoming overweight adults who may be at risk for obesity related health conditions.

2005-2006 South Dakota data at a glance (ages 5-19):

- 2.9 percent Height-For-Age below 5th percentile. (Short stature)
- 2.4 percent of children fall below the 5th percentile in BMI-for-age. (Under-weight)
- 16.9 percent "at risk for overweight".
- American Indians 19.5 percent "at risk for overweight".
- 16.9 percent "overweight".
- American Indians 27.1 percent "overweight".

Results

These data were compared to the growth charts developed by the Centers for Disease Control and Prevention. The growth charts are based on the body mass index* (BMI) and provide the most up-to-date standard for evaluating body measurements of children. The growth charts provide a reference for adolescents that were not previously available and are consistent with adult standards so they can be used continuously from two years of age to adulthood.

It should be noted even though BMI is an effective screening tool used to identify individuals who are underweight or overweight, it is not a diagnostic tool. For example, a child who is relatively heavy may have a high BMI for his or her age. To determine whether the child has excess fat or is truly overweight, further assessment is needed which may include triceps skinfold measurements, assessments of diet, health, and physical activity.

Introduction

Due to increasing rates of child obesity and its health risks, the Department of Health (DOH), in cooperation with the South Dakota Department of Education (DOE), started a process during the 1998-1999 school year to collect data on the height and weight of students. The intent of this data collection effort was to start a data surveillance system of school-aged children.

This report summarizes the data collected during the 2005-2006 school year and allows South Dakota to quantify the extent of the childhood overweight problem. In addition, it provides the DOH and DOE the data needed to address the prevention of childhood obesity and decrease it as a public health problem.

Data Collection Process

Letters requesting schools share the height and weight data with the DOH were sent by the Coordinated School Health Program to all South Dakota school health and physical education teachers, and school nurses. A data collection form and instructions on how to measure children (Appendix 1) were included with the letter. Copies of this letter were also sent to superintendents and building principals. Participation in the data collection effort was voluntary and no remuneration was provided.

This project was completed for the eighth time during the 2005-2006 school year.

Comparison To 1998-1999 And 1999-2000 School Year Report

The School Height and Weight Report for South Dakota Students 1998-1999 School Year is not comparable to any report published after it. The 1998-1999 publication reported weight-for-height above the 95th percentile for younger students and Body Mass Index or BMI above the 95th percentile for adolescents between 15 percent and 18 percent. For male students the reference was through the age of 11 years 6 months and less than 57 inches tall. For females, the reference was through the age of 10 years and less than 54 inches tall. The available BMI standard could be used for students 14 to 18 years of age.

Starting with the report for the 1999-2000 school year, the DOH used BMI-for-age as the criteria for determining if a child was at risk for overweight or overweight.

However, the Centers for Disease Control and Prevention (CDC) reanalyzed the 1998-1999 year data along with this year's data to the same standards and comparisons will be included in this report where possible.

^{*} Body Mass Index is calculated by dividing a person's weight in pounds by their height in inches squared times 703. The mathematical equation for BMI is: weight (lb)/height (in)² x 703.

Data Limitations

Data quality has been determined to be within acceptable standard deviation but has the following limitations.

First, schools voluntarily submitted height and weight data from across the state but no attempt was made to obtain a representative sample (Appendix 2 and 3). However, data were collected for 33.8 percent of the state's students from 276 schools, which is 31.5 percent of the state's attendance centers. While American Indian students comprise 15.6 percent of the South Dakota enrollment population, they represent 13.6 percent of the survey respondents.

Second, the Department of Health filtered the data and the following types of records were removed: data gathered prior to the 2005-2006 school year, data that had biologically implausible results, and entries where all essential data elements were not completed. After the above cases were removed, the sample size was 46,391 students and 276 schools. Also, CDC excluded 1,140 cases and 1 school with errors leaving a total of 45,251 cases and 275 schools for analysis.

Third, while the instructions included the type of equipment that should be used, there is no assurance that this was always the case. South Dakota DOH has been providing balance-beam scales and wall-mounted measuring boards to schools to help improve the quality of data. While it is not known what training persons who obtained measurement had, it is known that much of the data were obtained by, or under the supervision of, school nurses or school health and physical education teachers.

South Dakota's height data are of acceptable quality, however, worldwide measurements of height tend to be of marginal quality. There could be several possible reasons for this including use of measuring equipment that did not allow accurate heights to be

obtained. This can occur when the person doing the measuring is shorter than the person being measured. Measurers of adolescents may need to stand on a stool or a bench to have eye level be above the child's head. Also if the measuring stick on a standing scale was used, the children would be inaccurately reported as shorter than they are. South Dakota should be cognizant of this problem when determining heights. This may be solved now as adolescent height is more "normal" but this may explain the high level of short stature for the 1998-1999 school year.

Publication Format

Schools and/or school districts who submitted measurements from 100 or more students are receiving school specific and/or specific data along district with aggregate data in this report. The requirement total of 100 measurements may occur over a period of three years. Measurements from schools who submitted data from less than 100 students will only be provided with the aggregate data in this report. CDC determined that small numbers do not produce stable rates and established the 100-student cut-off.

Height

Short stature is defined as a height-for-age below the 5th percentile for children of the same height and age in the reference populations used by the CDC. Short stature may be evidence of compromised health, delayed development, and poor diet.

Table 1, below, contains the height-for-age data for South Dakota students. The data for South Dakota children ages 5 to 8 indicate that 2.7 percent are below the 5th percentile. The data also indicate that 2.5 percent of children ages 9 to 11, 3.5 percent of students

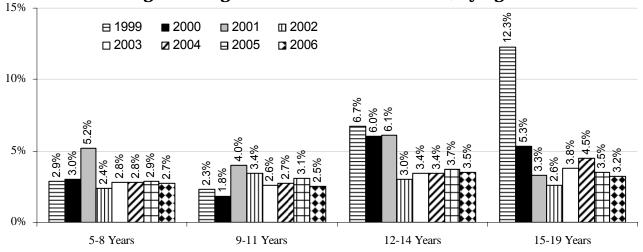
ages 12 to 14, and 3.2 percent of students ages 15 to 19 are below the 5th percentile. Lastly, the data for total students indicate that 2.9 percent are below the 5th percentile. Gender wise, female students are at 3.1 percent and males are 2.8 percent. This is the fifth year in a row since this report has begun that no age group is over the expected 5 percent of students with short stature in South Dakota, statewide. However, there are 11 schools with results above 5 percent. Years 1999 to 2006 of height-for-age are illustrated in Figure 2.

Table 1: School Year 2005-2006 Height-For-Age						
		Height-For-Age				
	Number Of	Below 5th				
Age	Students	Percentile				
5-8 years	14,460	2.7%				
9-11 years	14,135	2.5%				
12-14 years	12,491	3.5%				
15-19 years	4,165	3.2%				
Total	45,251	2.9%				

Source: South Dakota Department of Health

Note: Due to changes in the CDC/WHO age and height references these data can not be compared to reports of School Height and Weight for South Dakota Students published before the 2000-2001 school year.

Figure 2 Height-for-Age 5th Percentile 1999-2006, By Age



Note: Year represents the end of school year, i.e. 1999 is for school year 1998-1999, etc.

1999 rates – refer to page 2 about comparisons.

Table 2 provides the percent of height-for-age by race for students. When the data are analyzed by race, South Dakota again has less than the expected 5 percent below the 5th percentile in each race category.

Table 2: School Year 2005-2006 Height-For-Age, By Race							
Number Of Height-For-Age							
Race	Students	Below 5th Percentile					
White	34,980	2.8%					
American Indian	6,075	2.6%					
Other Races	1,809	4.0%					
Race Unknown	2,387	4.4%					
Total	45,251	2.4%					

Source: South Dakota Department of Health

Note: Due to changes in the CDC/WHO age and height references these data can not be compared to data in previous reports prior to the School Height and Weight for South Dakota Students 2000-2001 School Year.

Underweight

Children falling below the 5th percentile in BMI-for-age, compared to children of the same gender and age in the CDC reference population, are considered underweight. The conditions contributing to a low BMI are inadequate dietary intake, failure to thrive, chronic and infectious diseases. and variations within a population. Table 3, indicates below. that South Dakota (statewide) has less than the expected 5

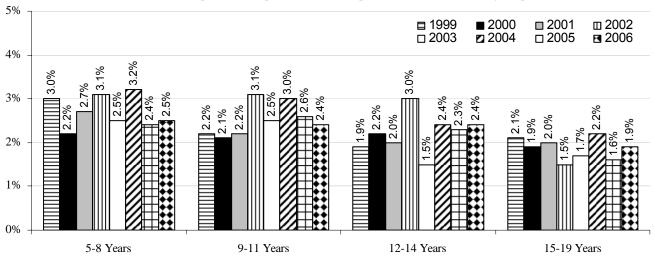
percent below the 5th percentile of school children from all age groups and as a population are not considered to be underweight when compared to their peers nationally. This is true for all the years of data collected to date, as illustrated in Figure 3, next page. This is also true when the data is looked at by gender; female students are at 2.2 percent and male students at 2.6 percent, which is below the expected 5 percent.

Table 3: School Year 2005-2006 Underweight Low Body Mass Index For Age						
	N	Body Mass Index				
Age	Number Of Students	Below 5th Percentile				
5-8 years	14,460	2.5%				
9-11 years	14,135	2.4%				
12-14 years	12,491	2.4%				
15-19 years	4,165	1.9%				
Total	45,251	2.4%				

Source: South Dakota Department of Health

Note: Due to changes in the CDC/WHO age and height references, these data cannot be compared to data in previous reports prior to the School Height and Weight for South Dakota Students 2000-2001 School Year.

Figure 3 Underweight Weight-for-Height 1999-2006, By Age



Note: Year represents the end of school year, i.e. 1999 is for school year 1998-1999, etc

1999 rates – refer to page 2 about comparisons..

Source: South Dakota Department of Health

Table 4 provides the percent of underweight students by race. When the data are analyzed by race, South Dakota again has less than the expected 5 percent below the 5th percentile in each race category.

Table 4: School Year 2005-2006 Underweight							
Low Body Mass Index, By Race							
	Number Of	Body Mass Index					
Race	Students	Below 5th Percentile					
White	34,980	2.5%					
American Indian	6,075	1.5%					
Other Races	1,809	2.7%					
Race Unknown	2,387	2.7%					
Total	45,251	2.4%					

Source: South Dakota Department of Health

Note: Due to changes in the CDC/WHO age and height references these data can not be compared to data in previous reports prior to the School Height and Weight for South Dakota Students 2000-2001 School Year.

At Risk For Overweight And Overweight

The DOH used BMI-for-age as the criteria for determining if a child was at risk for overweight or overweight. BMI-for-age is the preferred term to describe children and adolescents. For adults, just a BMI value is used, but as children grow at different rates depending upon age and gender, the BMI value is plotted on growth charts and the resulting value of BMI-for-age is presented as a percentile value. If a child's BMI-for-age is between the 85th and 94th percentile in the CDC reference population of children matched for age and gender, the child is considered to be at risk for overweight. If a child is at or above the 95th percentile for children of that age and gender, the child is considered to be overweight.

One of the national Healthy People 2010 objectives is to "reduce the proportion of children and adolescents who are overweight or obese."

This is defined as, "at or above the genderand age-specific 95th percentile of BMI based on a preliminary analysis of data used to construct the year 2001 U.S. Growth Charts." The term "overweight" is used throughout this report to indicate children and adolescents who meet the criteria for the Healthy People 2010 objective. The target in each of four age groups is 5 percent.

DOH also has as a goal to "reverse the trend and reduce the percent of school-age children and adolescents who are overweight or obese from 17 percent in 2003 to 15 percent by 2010."

Table 5 provides the BMI-for-age statistics for South Dakota students. These data show that for all of the age groups, South Dakota will need to substantially reduce the number of overweight children in order to meet the Healthy People 2010 objective of 5 percent.

Table 5: School Year 2005-2006 At Risk For Overweight And Overweight Body Mass Index For Age								
		•		At Risk For				
	Number Of	At Risk For		Overweight And Overweight				
Age	Students	Overweight	Overweight	Combined				
5-8 years	14,460	16.1%	15.5%	31.6%				
9-11 years	14,135	17.2%	18.1%	35.3%				
12-14 years	12,491	17.1%	17.1%	34.2%				
15-19 years	4,165	17.8%	16.7%	34.5%				
Total	45,251	16.9%	16.9%	33.8%				

Source: South Dakota Department of Health

Note: Due to changes in the CDC/WHO age and height references, these data can not be compared to data in previous reports prior to the School Height and Weight for South Dakota Students 2000-2001 School Year.

Figure 4 through Figure 7 (below), illustrate each age group's overweight rate by year, compared to that year's rate of all students considered to be overweight.

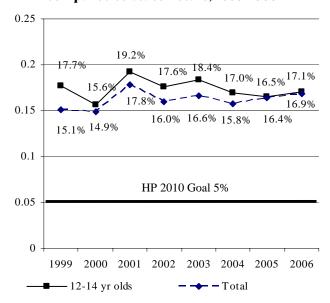
When compared to statewide rates, students ages 9 to 14 are consistently higher than the group as a whole every year, while 5 to 8 year olds are repeatedly lower but are on the rise.

Figure 4: Overweight 5-8 Year Olds Compared to State Totals, 1999-2006

0.25 0.2 17.8% 16.4% 16.9% 16.0% 16.6% 15.8% 0.15 13.3% 13.5% 13.0% 0.1 HP 2010 Goal 5% 0.05 0 2000 2001 2002 2003 2004 2005 2006 - 5-8 yr olds - Total

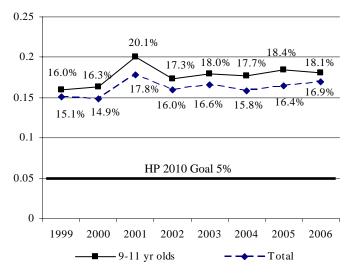
Source: South Dakota Department of Health

Figure 6: Overweight 12-14 Year Olds Compared to State Totals, 1999-2006



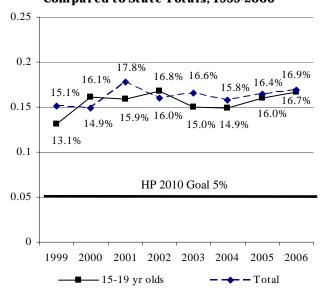
Source: South Dakota Department of Health

Figure 5: Overweight 9-11 Year Olds Compared to State Totals, 1999-2006



Source: South Dakota Department of Health

Figure 7: Overweight 15-19 Year Olds Compared to State Totals, 1999-2006



Source: South Dakota Department of Health

Note: Year represents the end of school year, i.e. 1999 is for school year 1998-1999, etc. 1999 rates – refer to page 2 about comparisons.

When the body mass index data were analyzed by race in Table 6, 16.6 percent of whites and 19.5 percent of American Indians were between the 85th percentile and 94th percentiles or were at risk for overweight. In addition, these

data indicate that 15.0 percent of whites and 27.1 percent of American Indians were above the 95th percentile or overweight. This is a slight increase for both white and American Indians from the 2004-2005 school year.

Table 6: School Year 2005-2006 At Risk For Overweight And Overweight Body Mass Index, By Race								
		At Risk		At Risk For Overweight				
	Number of	For		And Overweight				
Race	Students	Overweight	Overweight	Combined				
White	34,980	16.6%	15.0%	31.6%				
American Indian	6,075	19.5%	27.1%	46.6%				
Other Races	1,809	16.3%	20.5%	36.8%				
Race Unknown	2,387	15.0%	14.9%	29.9%				
Total	45,251	16.9%	16.9%	33.8%				

Source: South Dakota Department of Health

Note: Due to changes in the CDC/WHO age and height references these data can not be compared to data in previous reports prior to the School Height and Weight for South Dakota Students 2000-2001 School Year.

The prevalence of obesity is dramatically rising among children in the United States, particularly among minority populations. There are multiple causes of childhood obesity, most of which are associated with poor nutritional habits and inactivity. Obesity and overweight have been found to be difficult and expensive to treat and cure, therefore preventing this condition in children will be the key to addressing this national epidemic. So far, however, there are few examples of effective obesity prevention programs especially among

high risk isolated, rural populations.8

Table 7 contains the number of student measurements taken from 1999 to 2006 with the percent "at risk for overweight" and "overweight". The data is also displayed by gender. As the table illustrates, females have consistently had higher "at risk for overweight" percentage than the males, while the males have had higher "overweight" percentage than the females.

Table 7: School Year 1999-2006 At Risk For Overweight And Overweight Body Mass Index, By Gender

Total		Female			Male				
Year	# of Students	At Risk For Overweight	Overweight	# of Students	At Risk For Overweight	Overweight	# of Students	At Risk For Overweight	Overweight
2006	45,251	16.9%	16.9%	21,948	17.3%	15.3%	23,303	16.5%	18.3%
2005	35,489	16.6%	16.4%	17,295	16.7%	14.8%	18,194	16.6%	17.8%
2004	27,418	16.2%	15.8%	13,278	16.1%	14.3%	14,140	16.3%	17.2%
2003	19,424	16.7%	16.6%	9,518	17.0%	15.1%	9,906	16.4%	18.0%
2002	15,559	16.5%	16.0%	7,522	16.5%	14.5%	8,037	16.5%	17.3%
2001	12,285	15.9%	17.8%	6,002	16.1%	16.2%	6,283	15.6%	19.3%
2000	14,655	16.9%	14.9%	7,215	16.9%	13.9%	7,440	17.0%	15.9%
1999	16,021	16.7%	15.1%	8,015	16.0%	13.2%	8,006	17.3%	16.9%

Regional Data

The data for 2005-2006 was once again analyzed by education service agency regions. Below is a map showing the regions and tables presenting the racial and age demographics of those regions.

Table 10, next page, shows that region 5 has an overweight percent of 25.7 and 74.6 percent of the participants in region 5 are American Indians. Of the 6,075 American Indian students included in the total submission, 25 percent were submitted from region 5.

Note: See Appendix 2 for school locations.
Source: South Dakota Department of Education – Revision 3/26/2004

Figure 8: S.D. Education Service Agencies Region Map

Table 8: School Year 2005-2006 Racial Distribution by Regions

Distribution by Regions								
Region	White	American Indian	Other Race	Unknown				
1	83.8%	7.2%	2.6%	6.4%				
2	86.4%	2.7%	8.2%	2.7%				
3	70.9%	16.2%	2.6%	10.3%				
4	83.7%	3.8%	2.7%	9.9%				
5	22.3%	74.6%	0.5%	2.6%				
6	66.9%	30.8%	1.7%	0.6%				
7	75.0%	16.8%	4.2%	4.1%				
Total	77.1%	13.6%	4.0%	5.3%				

Source: South Dakota Department of Health

Table 9: School Year 2005-2006 Age Distribution by Regions

		<u>J 10610110</u>				
Region	5-8 Years	9-11 Years	12-14 Years	15-19 Years		
1	35.3%	29.3%	27.2%	8.1%		
2	31.5%	33.4%	30.5%	4.6%		
3	36.7%	33.5%	24.1%	5.7%		
4	34.2%	27.0%	23.7%	15.2%		
5	33.6%	33.4%	17.6%	15.4%		
6	33.4%	31.5%	28.7%	6.4%		
7	26.0%	31.7%	30.2%	12.0%		
Total	32.1%	31.2%	27.5%	9.2%		

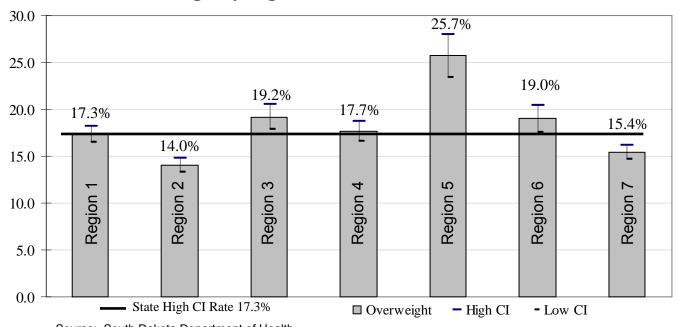
Table 10: School Year 2005-2006 At Risk For Overweight And Overweight Body Mass Index, By Regions								
Region	Number of Students	At Risk For Overweight	Overweight	At Risk For Overweight And Overweight Combined				
1	9,097	17.8%	17.3%	35.1%				
2	9,722	16.5%	14.0%	30.5%				
3	4,355	16.5%	19.2%	35.7%				
4	6,042	16.7%	17.7%	34.4%				
5	1,945	19.0%	25.7%	44.7%				
6	3,477	17.8%	19.0%	36.8%				
7	10,613	16.1%	15.4%	31.5%				
Total	45,251	16.9%	16.9%	33.8%				

Source: South Dakota Department of Health

Figure 9 illustrates that regions 2 and 7 are significantly below the state high confidence interval rate of 17.3 percent. Regions 3, 5, and 6 are significantly higher than the state high confidence

interval rate. Regions 1 and 4 are not significantly different as they fall into the statewide range of 16.5 percent to 17.3 percent. See page 18 for meaning of confidence interval rates.

Figure 9: School Year 2005-2006 Overweight Body Mass Index For Age, By Regions with Confidence Intervals



Obesity Risk Factors

Obesity is a risk factor for the following conditions in adulthood: cardiovascular disease. hypertension, diabetes. degenerative joint disease, psychological problems. Although commonly thought of as an adult disease, obesity is a growing problem in children and adolescents and its consequences are increasingly being seen. Overweight children and adolescents have increased blood lipids and other cardiovascular risk factors. Research shows that 60 percent of overweight 5- to 10-yearold children already have at least one risk factor for heart disease, including hyperlipidemia and elevated blood pressure or insulin levels. Type 2 diabetes in children, a disease that typically appears in adults, is increasing at alarming rates among children and adolescents. Liver disorders are more frequently found in overweight children overweight children also have more hypertension, sleep apnea, and orthopedic complications. Overweight children are taller and mature earlier than non-overweight children. (Dietz, Pediatrics 101 Suppl, March 1998⁷).

The most widespread consequences of obesity in children are psychological. With a culture that generally prefers thinness, overweight children are targets of early and systematic discrimination. They have fewer friends and are regarded as lazy or sloppy. Obese adolescents develop a negative selfimage. Children who mature early tend to have lower self-esteem. (Dietz, *Pediatrics* 101 Suppl, March 1998⁷).

Being overweight during childhood increases the chance that the person will be overweight as an adult. Whitaker et al (NEJM: 1997;337-869-873) reported that 69 percent of overweight children 6 to 10 years will be obese at age 25, 83 percent of overweight children 10-15 years will be obese at age 25, and 77 percent of overweight adolescents 15 - 18 years will be

obese at age 25. For children at risk of overweight, the percentages are 55, 75, and 67 respectively.

Comparison To Other Data

Height and weight data were measured nationally in a series of representative surveys (National Health Examination Survey-NHES and National Health and Nutrition Examination Survey-NHANES). When the overweight definition is applied to data from earlier national health examination surveys, it is apparent that overweight in children and adolescents was relatively stable from the 1960s to 1980. However, from NHANES II (1976-80) to NHANES III, the prevalence of overweight nearly doubled among children and adolescents. In the time interval between NHANES II and III, the prevalence of overweight among children ages 6-11 years increased from an estimated percent to 11 percent, and among adolescents ages 12-19 years, increased from 5 percent to 11 percent. NHANES IV results for 2003-2004 indicate that 18.8 percent of children, ages 6 to 11 are overweight and 17.4 percent of adolescents ages 12 to 19 are overweight. Although South Dakota uses slightly different age group categories for analysis and the reference standards have changed slightly, the South Dakota data are lower than the national data collected.

By using the Pediatric Nutrition Surveillance System or PedNSS, the South Dakota Department of Health has collected height and weight data of infants and children participating in the South Dakota Supplemental Nutrition Program for Women. Infants, and Children (WIC) since 1995. WIC serves children under the age of 5 who are at nutritional risk and are from families with limited incomes. The 2004 rate of overweight, ages 2 to 5 years was 13.9 percent, up from 13.6 percent in 2003. The three-year period (2002-2004) rate for overweight children was 13.4 percent.

Prevention Of Child Overweight And Child Obesity

Child overweight and child obesity is a multi-faceted problem that should be addressed by promoting healthy eating and increasing physical activity and decreasing While it will take all South inactivity. Dakotans working together to overcome this increasing problem, schools can play a key role in providing education and healthy environments. Care must also be taken not encourage weight preoccupation, inappropriate eating habits, and extreme amounts of exercise associated with eating disorders in youth.

Based on the school height and weight data submitted, some South Dakota schools have successfully worked to reverse the increasing trend in child overweight. Excerpts from the success stories of these schools are included in the following guidelines that everyone can take to prevent child overweight and obesity. For the full text of these excerpts, see Success Stories under the schools tab on www.healthysd.gov. School Wellness Policies can be a great vehicle for creating healthier environments. For assistance with developing wellness policies go http://doe.sd. gov/oess/cans/docs/Wellness Policy.pdf.

What Everyone Can Do

- Set a good example by being physically active and eating a healthy, balanced intake high in fruits, vegetables, and whole grains.
- Advocate for convenient, safe, and adequate places for young people to play and take part in physical activity programs.
- Support daily physical education and other school programs that promote lifelong healthy eating and physical activity, not just competitive sports.
- Urge parent associations and school clubs to sell healthy foods or nonfood items for fund-raising activities.
- Join a school health or nutrition advisory council, such as Team Nutrition, to help guide nutrition policy and educational programs.
- Access walking and bicycling trails in your community and area parks.
- Participate in Walk in the Park activities at South Dakota state parks. For schedule see: http://www.sdgfp.info/Parks/Calendar.htm.

 Participate in Action for Healthy Kids network to improve the health and educational performance of children through better nutrition and physical activity in schools. http://www.actionforhealthykids.org/

All district employees from maintenance to food service, regular classroom teachers to support staff, administration to school board members have made a commitment to help students learn to live and maintain a healthy lifestyle. The formation of our coordinated school health team has also been a huge factor. It allows our district to coordinate and brain storm ideas that can help reduce, or at least manage, the trend of increased obesity in our country as well as the state of South Dakota.

Chris West, Sturgis Elementary Physical Education Instructor

What Parents Can Do

- Provide children with healthy food choices for meals and snacks.
- Encourage children to be physically active.
- Involve children in selecting and preparing food.
- Learn what your children want from physical activity programs and help choose appropriate activities.
- Volunteer to help children's sports teams and recreation programs.
- Make physical activity a fun, family event.
- Serve as a role model for your children by eating a variety of healthy foods.
- Play and be physically active with children.
- Limit television watching or video games to no more than two hours per day.

Each fall and spring, usually the months of Sept., Oct., March, and April, students in grades 1 - 5 are given an activity calendar. Each day they are to log their minutes of activity and also record the type of activity they did. The parents are asked to initial the calendar daily. The goal is to accumulate 300 minutes of activity throughout the month. The students turn in the calendar at the end of the month. Those students who reach the 300 minute goal have their name put in a drawing. Each month, 15 to 20 names are drawn and they receive a prize that the PTA provides. Prizes are activity related, such as basketballs, mini footballs, jump rope activity packs, etc.

Becky Luecke, CC Lee Elementary, Aberdeen, Physical Education Instructor

What Students Can Do

- Make healthy choices in the school cafeteria, when packing lunch, and for snacks.
- Walk to school where possible.
- Set goals for increasing your physical activity and monitor your progress.
- Encourage friends and family members to be physically active and to eat healthfully.
- Use protective clothing and proper equipment to prevent injuries and illnesses.
- Encourage the student council to advocate for physical education classes and after-school programs that are attractive to all students and to request healthy food choices in school and at school events.
- Take elective courses in health, physical education, cooking, and nutrition.
- Limit television watching or computer games to no more than two hours per day.

The exercise equipment is located in the health classroom. Every morning you will find middle school students riding the machines. There usually is a waiting line to get on the six pieces of equipment.

Harry Haanen, Chamberlain Middle School Physical Education Instructor

What Teachers And Coaches Can Do

- Access Team Nutrition information. http://doe.sd.gov/oess/cans/nutrition/index.asp
- Use the South Dakota Health Education Content Standards and the South Dakota Physical Education Content Standards as guides for curriculum planning. http://www.doe.sd.gov/contentstandards/
- Contact Coordinated School Health in the Departments of Education and Health for technical assistance in selecting quality curriculum and increasing physical activity. http://www.doe.sd.gov/oess/schoolhealth/index.asp
- Promote walking at your school and participate in "SD Schools Walk". http://www.doe.sd.gov/oess/schoolhe alth/sdwalks/index.asp
- Offer healthy, appealing foods (such as fruits, vegetables, and low-fat grain products) wherever food is available and discourage the availability of foods high in fat, sodium, and added sugars (such as soda, candy, and fried chips) at school functions and trips and as part of fund-raising activities.
- Emphasize activity and enjoyment over competition.
- Help students become competent in many motor and behavioral skills.
- Provide nutrition education through activities that are fun, participatory, developmentally appropriate, and culturally relevant. Activities should emphasize the positive, appealing aspects of healthy eating rather than the harmful effects of unhealthy eating.

- Work with food nutrition managers, coaches, physical education teachers, and other staff to coordinate nutrition education efforts and give students consistent messages about healthy eating.
- Model good nutrition and physical activity habits.
- Involve physical activity when teaching in a classroom setting.
- Involve families and community organizations in physical activity programs.
- Refrain from using food to discipline or reward students.
- Request healthy snacks for class parties.
- Include in teaching a discussion of body image and societal pressures, especially for young girls.

We promote ... jump rope, physical fitness testing, stationary bikes ... and activities that require a lot of running and full class participation. We spend little time on team sports that require many students to wait their turn.

Bob Reynolds, Douglas Middle School, Box Elder, Physical Education Instructor

SDSU Extension Service has come into health classes for the last two years to 3rd and 4th grade health classes to work on nutritious snacks and foods children can make & eat, and to discuss nutrition and exercise. These sessions are 40 minutes long and last 8 weeks.

Cora L. Peterson, Eagle Butte Upper Elementary Principal

What School Nutrition Staff Can Do

- Provide meals that are tasty and appealing to students and that meet USDA nutrition standards and the Dietary Guidelines for Americans.
- Post the nutritional content of foods served.
- Sell ala carte foods that meet nutrition standards.
- Involve students and families in planning and evaluating school meals
- Look for continuing education opportunities to learn more about nutrition, preparing healthier meals, food safety, and marketing healthy choices
- Incorporate marketing and promotion strategies from the Fruit and Vegetables Galore toolkit from *Team* Nutrition.
- Apply for the Healthier US School Challenge from the US Department of Agriculture.
- Support classroom lessons by offering foods to illustrate key messages and decorating the cafeteria with educational posters.
- Provide healthy sack lunches for students for out-of-school events such as athletic trips.
- Invite parents to lunch and give them information about the nutritional value of the meal.

The school lunch program is serving more fruits and vegetables, increased the amount of fiber (i.e., wheat bread), changing some of the recipes for less sodium and fat, and the milk is skim or 1% only.

Dr. Helen Jenkins, Principal, Piedmont/Stagebarn Elementary,

What School Administrators And Board Members Can Do

- Organize a school health or nutrition advisory committee that includes all key groups.
- Allocate adequate time for nutrition education as part of a sequential, comprehensive health education program.

In the elementary we have encouraged healthier snacks, changed noon recess to before lunch and keep all the students out for recess and in PE.

Lori Wehlander, Iroquois Superintendent/Elementary Principal

- Make schools available for the public to use for walking.
- Require health education and daily physical education for students in grades K-12.
- Encourage food service staff to limit serving sizes to recommended portions.
- Become a Team Nutrition school and access information available.
- Provide adequate time and space for students to eat meals in a pleasant, safe environment.
- Provide time during the day, such as recess, for unstructured physical activity, such as walking or jumping rope.
- Stock vending machines with 100 percent fruit juice and other healthy snacks; make sure that healthy foods are served at school meetings and events.
- Limit the sale of high-fat, high-sugar snacks during mealtimes and as fundraisers.

- Hire physical activity specialists and qualified coaches.
- Hire qualified food service and nutrition education staff.
- Provide health promotion programs for faculty and staff.
- Evaluate school nutrition and physical activity programs using the School Health Index.
- Use the South Dakota Health Education Content Standards and the South Dakota Physical Education Content Standards as guides for curriculum planning. http://www.doe.gov/contentstandards/
- Use Fit, Healthy, and Ready to Learn to help write school health policy. http://www.nasbe.org/HealthySchools/fithealthy.html
- Utilize "Strides to a Healthier Worksite" planning guide to evaluate school as worksite. http://www.healthysd.gov/workplaceTools.html

There is a team effort between the administrators, classroom and physical education teachers, school kitchen staff, and the nurses - - to educate students and parents regarding the relationship between nutrition and exercise and overall health.

Sandy Schulz, Harrisburg Liberty and Explorer Elementaries, School Nurse

What School Nurses And Health Professionals Can Do

- Measure height and weight accurately and use the CDC growth charts to screen children and adolescents.
- Provide anticipatory guidance to parents and children regarding healthy eating and physical activity habits. Evaluate children and

- adolescents with positive screens and refer as appropriate for intervention.
- Include in teaching a discussion of body image and societal pressures especially for young girls.
- Utilize "Obesity in South Dakota A Clinical Toolkit for Healthcare Providers" to address weight issues in patients. http://www.healthysd.gov/HealthProfs.html

What Communities Can Do

- Utilize "Strides to a Healthier Community" planning guide to evaluate your community. http://www.healthysd.gov/documents/StrideCommunity.pdf
- Provide a mix of competitive team sports and noncompetitive, lifelong fitness and recreation activities.
- Increase the availability of parks, public swimming pools, hiking and biking trails, and other places for physical activity, including sidewalks.
- Ensure that coaches have appropriate coaching competencies.
- Provide after-school programs for children.
- Work with schools, businesses, and community groups to ensure that lowincome young people have transportation and appropriate equipment for physical activity program.

We have a ... Community Center that has an indoor track, pool, and gym that families can be a member of. The facility is also used by the after school program.

Theresa Adel, South Park Elementary, Belle Fourche, Physical Education Instructor

Technical Notes

<u>Height</u> Short stature is defined as a height-for-age below the 5th percentile for children of the same height and age in the reference populations used by the CDC.

Children grow at different rates depending upon age and gender, the BMI value is plotted on growth charts, and the resulting value of BMI-for-age is presented as a percentile value.

<u>Underweight</u> Children falling below the 5th percentile in BMI-for-age, compared to children of the same gender and age in the CDC reference population, are considered underweight.

At Risk for Overweight If a child's BMIfor-age is between the 85th and 94th percentile in the CDC reference population of children matched for age and gender, the child is considered to be at risk for overweight.

<u>Overweight</u> If a child is at or above the 95th percentile for children of that age and gender, the child is considered to be overweight.

<u>Obesity</u> Obesity is an excessively high amount of body fat or adipose tissue in relation to lean body mass. Adults with a BMI of 25 to 29.9 are considered overweight, while adults with a BMI of 30 or more are considered obese.

Confidence Intervals (CI) The standard error (SE) of a rate is used in health statistics when studying or comparing rates. The SE defines a rate's variability and can be used to calculate a confidence interval (CI) to determine the actual variance of a rate 95 percent of the time. Rates for two different populations (areas, regions) are considered to be significantly different

when their confidence intervals do not overlap.

confidence The standard error and intervals are calculated in the following manner. For example, Region 5's high overweight rate is 25.7 percent. This was based on 1.945 student measurements of which 500 are "overweight" in 2005-2006. The square root of 500 is roughly 22.4. By dividing the rate of 25.7 by 22.4, the estimated SE of approximately 1.15 is the result. The estimated SE can then be used to compute a 95 percent CI for the rate. The standard formula RATE ± (1.96) *SE) is used for determining the 95 percent CI. Following this formula, we produce an equation of 25.7 \pm (1.96 * 1.15) and the result is 25.7 ± 2.3 From this the estimated 95 percent CI is 23.4 to 28.0 percent. It could then be stated, with 95 percent certainty that the actual 2005-2006 overweight rate for Region 5 is between 23.4 and 28.0 percent.

Therefore, Region 5's overweight rate would be considered significantly different from the state rate. This is because the confidence intervals for Region 5 (23.4-28.0) and the state (16.5-17.3) do not overlap. The same can be said for Region 3 (17.9-20.5), and Region 6 (17.6-20.4). Regions 2 and 7 are significantly below the state CI levels. Regions 1 and 4 are not considered significantly different as the confidence intervals overlap the state wide intervals. See Figure 9 page 11.

BMI (Body Mass Index) The formula to calculate BMI is weight (lb) \div height (in) \div height (in) x 703. This formula is used for adults. See the next page for children and adolescents BMI.

BMI - Body Mass Index: BMI for Children and Adolescents BMI is used differently with children and adolescents than it is with adults. In children and adolescents, body mass index for age is used to assess underweight, overweight, and risk for overweight. Girls and boys differ in their body fatness as they mature. This is why BMI for children, also referred to as BMI-for-age, is gender and age specific.^{1, 2} BMI-for-age is plotted on gender specific growth charts. These charts are used for children and adolescents 2 – 20 years of age. For the 2000 CDC Growth Charts and additional information visit CDC's National Center for Health Statistics at http://www.cdc.gov/growth website charts/.

Each of the CDC BMI-for-age gender specific charts contains a series of indicating curved lines specific percentiles. So if a child is in the 60th percentile it means that compared to children of the same gender and age, 60 percent have a lower BMI. Healthcare professionals use the following established percentile cutoff points to screen underweight and overweight in children.

	•
Underweight	BMI-for-age < 5th percentile
At risk of overweight	BMI-for-age 85th percentile to < 95th percentile
Overweight	BMI-for-age ≥ 95th percentile

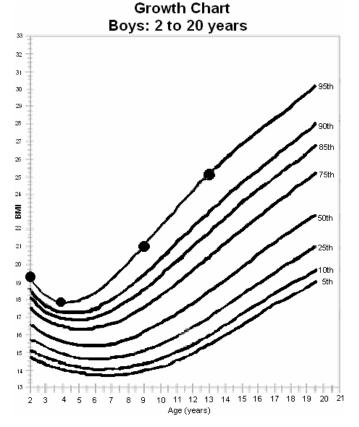
BMI decreases during the preschool years, then increases into adulthood. The percentile curves show this pattern of growth.

Sample of BMI and Growth Chart

As a boy grows, his BMI changes, but he remains at the 95th percentile BMI-for-age.

Age	BMI	Percentile
2	19.3	95th
4	17.8	95th
9	21.0	95th
13	25.1	95th

The example shows how the boy's BMI declines during his preschool years and increases, as he gets older.



BMI-for-Age for children and adolescents is a useful tool because:

- BMI-for-age provides a reference for adolescents that can be used beyond puberty.
- BMI-for-age in children and adolescents compares well to laboratory measures of body fat.
- BMI-for-age can be used to track body size throughout life.

¹ Hammer LD, Kraemer HC, Wilson DM, Ritter PL, Dornbusch SM. Standardized percentile curves of body-mass index for children and adolescents. *American Journal of Disease of Child*. 1991; 145:259–263.

² Pietrobelli A, Faith MS, Allison DB, Gallagher D, Chiumello G, Heymsfield, SB. Body mass index as a measure of adiposity among children and adolescents: A validation study. *Journal of Pediatrics*. 1998; 132:204–210.

While prevention should be the goal, it is recognized that individual children may need specific plans of care. Schools are encouraged to work with their local health care providers to define when and how referrals for further evaluation and intervention are made for individual students.

Acknowledgements

A special thanks goes to the school personnel who submitted the data and to the Centers for Disease Control and Prevention for technical assistance. This is an ongoing project and schools are encouraged to continue to submit data they are collecting.

South Dakota State Agency Websites:

Healthy SD Coordinated School Health in the Departments of Education and Health: http://doe.sd.gov/oess/schoolhealth/index.asp

CANS/Team Nutrition SD Model School Wellness Policy and Resources: http://doe.sd.gov/oess/cans/docs/Wellness Policy.pdf

For More Information

For additional ideas about how to address overweight and obesity, try these websites:

Centers for Disease Control and Prevention (CDC), National Center for Chronic Disease Prevention and Health Promotion, Division of Adolescent and School Health: http://www.cdc.gov/healthyyouth/index.htm

Centers for Disease Control and Prevention (CDC), National Center for Chronic Disease Prevention and Health Promotion, Division of Nutrition and Physical Activity: http://www.cdc.gov/nccdphp/dnpa

School Health Index for Physical Activity and Healthy Eating: A Self-Assessment and Planning Guide: http://doe.sd.gov/oess/schoolhealth/resources.asp

Action for Healthy Kids, nationwide initiative with guidance provided by more than 30 national organizations and government agencies: http://www.actionforhealthykids.org

Promoting Physical Activity A Guide to Community Action: http://www.cdc.gov/nccdphp/dnpa/pahand.htm

Team Nutrition—Healthy School Meals Resource System: http://schoolmeals.nal.usda.gov/

South Dakota Department of Education: http://www.doe.sd.gov/oess/schoolhealth//index.asp

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Appendix 1: Directions for Completing School Heights and Weights Data Sheet

- School Name and County: Provide full name of school and county in which school is located.
 Provide Grade Level of School: High School, Jr. High, or Middle School, Elementary School, etc.
 District Name: Report the name of the school district in which the school is located.
 Mailing Address of School, Town, Zip Code: This information is needed for mailing reports and information to the school. Provide the complete mailing address.
 Contact Name and Telephone Number: This information is needed in case there are questions about the data. Provide the name of the contact person and their telephone number.
 Building Principal's Name, Mailing Address, and Telephone Number: This information is needed for contact purposes.
- 2. **Date of Measurement:** Complete date using month, day, and year. If data was obtained on September 2, 1999 enter 09 02 1999. Use a **separate page for each day** data is collected. Please send data as obtained rather than wait until the end of the school year to send the recorded data.

Information on each student measured:

- 3. **Name of student:** This information is optional and should be removed before submitting the data. It is provided for local school information only.
- 4. **ID#:** Each child measured needs a unique identification number. It can just be numerical order but three digits should be used (i.e., 001, 002, etc). The number is to be used for data collection purposes only. **Please do not use an i.d. number more than once.**
- 5. **Sex:** Enter sex of student as either M (male) or F (female).
- 6. **Date of Birth:** Record person's date of birth. If date of birth is May 8, 1990, record as follows:

m	0.	ď	day		year			
0	5	0	8	1	9	9	0	

- 7. **Ethnic Origin/Race:** Enter ethnic origin. This is to be completed by observation of race. Select one of the categories listed or Other. Enter number as follows:
 - 1. White, not Hispanic
 - 2. Black, not Hispanic
 - 3. Hispanic
 - 4. American Indian or Alaskan Native
 - 5. Asian or Pacific Islander
 - 6. S.E. Asian Refugee
 - 7. Other
 - 8. Not Specified
- 8. **Height:** Enter height of individual. Use inches to the nearest 1/8 inch. Do not change denominator of fraction. Always convert to eighths: 3/4 should be converted to 6/8, 1/4 to 2/8, etc. If height is 45 1/8 inches, record as follows:

4	5	1/8

Allowable entries for numerator of fraction are 0-7. **Do not leave blank if zero**. Do not use 9 for unknown fraction unless inches are unknown also. If height is 62 inches, record as follows:

|--|

Below is a conversion chart to convert feet and inches to inches. This has been added to the report form for ease of reporting height in inches, as required.

| Ft. In. = Inches |
|------------------|------------------|------------------|------------------|
| 3 0 = 36 | 4 0 = 48 | 5 0 = 60 | 6 0 = 72 |
| 3 1 = 37 | 4 1 = 49 | 5 1 = 61 | 6 1 = 73 |
| 3 2 = 38 | 4 2 = 50 | 5 2 = 62 | 6 2 = 74 |
| 3 3 = 39 | 4 3 = 51 | 5 3 = 63 | 6 3 = 75 |
| 3 4 = 40 | 4 4 = 52 | 5 4 = 64 | 6 4 = 76 |
| 3 	 5 = 41 | 4 5 = 53 | 5 5 = 65 | 6 5 = 77 |
| 3 6 = 42 | 4 6 = 54 | 5 6 = 66 | 6 6 = 78 |
| 3 7 = 43 | 4 7 = 55 | 5 7 = 67 | 6 7 = 79 |
| 3 8 = 44 | 4 8 = 56 | 5 8 = 68 | 6 8 = 80 |
| 3 9 = 45 | 4 9 = 57 | 5 9 = 69 | 6 9 = 81 |
| $3 \ 10 = 46$ | 4 10 = 58 | 5 10 = 70 | $6 \ 10 = 82$ |
| 3 11 = 47 | 4 11 = 59 | 5 11 = 71 | 6 11 = 83 |
| | | | |

Height should be measured with metal measuring tape and right-angle headpiece or full-length measuring board to insure accuracy. Do not use the measuring rod on the adult balance beam weight scale because it is not accurate. Have individual remove shoes, heavy outer clothing, hats, and hair barrettes. Procedure:

- (1) Have the individual stand with his/her back against the wall on a flat floor directly in front of the measuring tape. The tape should run directly down the center of his/her back.
- (2) Individual should stand with feet slightly apart and the back as straight as possible. The heels, buttocks, and shoulder blades should touch the wall or surface of the measuring board.
- (3) Have individual look straight ahead with head erect but not touching the wall or measuring board.
- (4) Place the headpiece flat against the wall and at a right angle to the head. Lower it until it firmly touches the crown of the head.
- (5) Hold the right-angle headpiece steady and have the person move out from under it.
- (6) Read the measurement at eye level where the lower edge of the headpiece intersects the measuring tape.
- (7) Repeat the procedure until two measurements agree within 1/4 inch. Record the larger of the two measurements on the form.
- 9. **Weight:** Enter weight of individual. Use pounds to the nearest 1/4 pound. Do not change the denominator of the fraction. Always convert to fourths; 1/2 should be converted to 2/4, 4/16 to 1/4, etc. For example, if weight is 56 1/2 pounds, record as follows:

0	5	6	2/4

Do not leave numerator of fraction blank if zero. Do not use 9 for unknown fraction unless pounds are unknown also! For example, 125 pounds should be recorded as follows:

1	2	5	0/4

Weight should be taken without shoes or heavy outer clothing. Use adult beam balance scale if at all possible. Scale needs to be placed on uncarpeted floor if possible for an accurate weight. Child needs to stand on the center of scale platform and not be touching other objects or person. Child should be weighed, step off the scale, and then weighed again to insure an accurate weight.

10. **Submit data as soon as possible after measurements are taken,** though data will be accepted throughout the year, the summary of data will be reported by calendar year. Send all data to:

Mary Sarvis
South Dakota Department of Health
600 E. Capitol

Pierre, SD 57501-2535 Fax:605/773-5683

SCHOOL HEIGHTS/WEIGHTS

School Name:														
County:						Grade Le	vels of Sc	hool:						
District Name:					Mai	ling Add	lress of Sc	hool: _					_	
City:					_		Zip (Code:					_	
Contact Person:					_ C	ontact's l	Email Add	lress:					_	
Contact's Telephone:							ct's Addre different/	Sch):						
Contact's City:						Conta	act's Zip C	Joue.					_	
Building Principal's Name:						Principa	al's Telepl	none:					_	
Principal's Address (if different/Sch):					_	P	rincipal's	City:					_	
Principal's Zip Code:					_ Pri	ncipal's l	Email Add	lress:					_	
Date of Measurements:														
MO.	DAY	YEAR									Converting Feet	& Inch	es to Inch	es
Name (For your use only – remove	ID#	Sex	D	OB (req	uired)	Race	Heigh	nt	Weig	ht	Ft. In. = Inches 3 0 = 36	Ft.	In. = Inch 3 = 63	
before submitting)		(required)	mo	day	year		inches	8's	pounds	4's	3 1 = 37	5	4 = 64	4
								/8		/4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5	5 = 65 6 = 66	
								/8		/4	3 4 = 40	5	7 = 67	7
								/8		/4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 5	8 = 68 9 = 69	
								/8		/4	3 7 = 43		10 = 70	0
								/8		/4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6	11 = 71 0 = 72	
								/8		/4	3 10 = 46	6	1 = 73 $2 = 74$	
								/8		/4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6	2 = 72 3 = 75	
								/8		/4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6	4 = 76 $5 = 77$	
								/8		/4	4 3 = 51	6	6 = 78	8
								/8		/4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6	7 = 79 8 = 80	
								/8		/4	4 6 = 54	6	9 = 81	1
								/8		/4	$\begin{vmatrix} 4 & 7 &=& 55 \\ 4 & 8 &=& 56 \end{vmatrix}$		10 = 82 $11 = 83$	
								/8		/4	4 9 = 57 4 10 = 58	7	0 = 84	4
											4 10 = 58 4 11 = 59	7	$ \begin{array}{rcl} 1 &=& 85 \\ 2 &=& 86 \end{array} $	
								/8		/4	$ 5 0 = 60 \\ 5 1 = 61 $	7	3 = 87 4 = 88	
								/8		/4	5 2 = 62	7		

Appendix 2 Participating Schools

School Name	Education Service Agency Region	County
Alcester Elementary, Alcester	2	Union
Alkali Elementary, Sturgis	7	Meade
All City Elementary, Sioux Falls	2	Minnehaha
Alternative Program, Rapid City.	7	Pennington
Andes Central Elementary, Lake	Andes3	Charles Mix
Anne Sullivan Elementary, Sioux	Falls2	Minnehaha
Artesian-Letcher Schools, Artesia	an3	Sanborn
Atall Elementary, Sturgis	7	Meade
	Falls2	
	lder77	
Baltic Elementary, Baltic	1	Minnehaha
	1	
Baltic Junior High School, Baltic.	1	Minnehaha
Batesland Elementary, Batesland	17	Shannon
Beadle Elementary, Yankton	3	Yankton
Belle Fourche High School, Belle	Fourche7	Butte
	lle Fourche7	
Beresford Flementary Beresford	2	Union
	Hot Springs7	
Big Stone City Schools Big Ston	e City1	Grant
Black Hawk Flementary Black H	awk7	Meade
Blumengard Colony Creshard	4	Faulk
Ron Homme Middle School Type	dall3	Ron Homme
Ronesteel-Fairfay Schools Rone	steel3	Gregory
Brandon Flementary Brandon	2	Minnehaha
Brandon Valley Middle School B	randon2	Minnehaha
Brentwood Colony Creshard	4	Faulk
Bridge Signy Falls	2	Minnehaha
Pridgowator Flomontary Pridgov	vater2	McCook
Pritton Hoola Schools Pritton	11	Marchall
	7	
Duchanan Elementary, Diame	4	Deaule
Buchanan Elementary, Pierre	6	Hugnes
Burke Schools, Burke	3	Gregory
Canistota Elementary, Canistota	2	IVICCOOK
Canyon Lake Elementary, Rapid	City7	Pennington
Cartnage Elementary, Cartnage.	4	Wilner
Castlewood Schools, Castlewood	d1	Hamlin
CC Lee Elementary, Aberdeen	4	Brown
Central Elementary, Brookings	1	Brookings
	4	
Central High School, Rapid City.	7	Pennington
Challenge Center, Sioux Falls	2	Minnehaha
Chamberlain Elementary, Chamb	perlain33	Brule
Chamberlain Middle School, Cha	ımberlain3	Brule
	1	
Chester Elementary, Chester	1	Lake
Christ The King Elementary, Siou	ux Falls2	Minnehaha

School Name	Education Service Agency Region	County
Christian Center Elementary, Siou	x	Minnehaha
Cleveland Elementary, Sioux Falls	522	Minnehaha
Colman-Egan Schools, Colman	1	Moody
Colome Schools, Colome	3	Tripp
	ty7	
Crow Creek Schools, Stephan	3	Hyde
Custer Elementary, Custer	7	Custer
	7	
	7	
	7	
Dakota Valley Elementary, North S	Sioux City2	Union
De Smet High School. De Smet	11	Kingsburv
Deubrook Schools. White	11	Brookings
	1	
Discovery Elementary, Sioux Falls	2	Minnehaha
Douglas Middle School Box Elder	····7	Pennington
	5	
Fagle Butte Upper Flementary Fa	igle Butte5	Dewey
Fast Flementary Spearfish	7	I awrence
Edgement Schools Edgement	7	Fall River
Edison Middle School Sigux Falls	2	Minnehaha
	ngs7	
Emery Schools Emery	2	Hanson
Enemy Swim Day School Wauhay	2y11	Day
Enning Elementary Enning	7	Meade
Ethan Schools Ethan	3	Davison
	alls2	
Evergreen Colony Creshard	4	Faulk
	5	
Family Immersion Center Signs F	alls2	Minnehaha
Faulkton Schools Faulkton	4	Faulk
	2	
	an2	
	dge5	
Freeman Schools Freeman	2	Hutchinson
Garfield Flementary Signs Falls	2	Minnehaha
	1	
Gaddes Schools Gaddes	3	Charles Miv
	d City7	
	idge5	
	ol, Brookings1	
Georgia Morse Middle School Pie	rre6	Hughes
Grant-Daniel Schools Davilla	11	Crant
Gragory Schools, Gragory	3	Grogory
	4	
	1	
	ioux Falls2	
Harrold Schools Harrold	rrisburg2	LITICOITI
Hanroy Duna Flomantam Clause	6alls2	nugnes
narvey Dunin Elementary, Sloux F	alls	ıvıınnenana

Hawthorne Elementary, Sioux Falls. 2 Minnehaha Hayward Elementary, Hereford	School Name	Education Service Agency Region	County
Hereford Elementary, Hereford. 7 Meade Hermosa Elementary, Hermosa . 7 Custer Hill City Elementary, Hill City . 7 Pennington Hillcrest Elementary, Brookings . 1 Brookings . 2 Spink Holgate Junior High School, Aberdeen . 4 Brown Holy Cross Elementary, Ispswich . 4 Edmunds . 2 Minnehaha Horace Mann Elementary, Sioux Falls . 2 Minnehaha . 1 Miner . 2 Minnehaha . 3 Minnehah	Hawthorne Elementary, Sioux Falls	s2	Minnehaha
Hermosa Elementary, Hermosa 7 Custer Hill City Elementary, Hill City Flementary, Brookings 1 Brookings Hitchcock-Tulare Schools, Tulare 4 Spink Holgate Junior High School, Aberdeen 4 Brown Holy Cross Elementary, Ipswich 4 Edmunds Horace Mann Elementary, Sioux Falls 2 Minnehaha Horace Mann Elementary, Rapid City 7 Pennington Hot Springs Elementary, Hot Springs 7 Fall River Howard Schools, Howard 1 Miner Huron High School, Huron 4 Beadle Huron Middle School, Huron 4 Beadle Huron Middle School, Huron 4 Beadle Hurterville Colony Elementary, Stratford 4 Brown Immaculate Conception, Watertown 1 Codington Iroquois Schools, Iroquois 4 Kingsbury Isabel Elementary, Isabel 5 Dewey Isan Wica Owayawa Elementary, Oglala 7 Shannon Jamesville Colony Elementary, Utica 3 Yankton Jefferson Elementary, Pierre 6 Hughes Jefferson Elementary, Pierre 6 Hughes Jefferson Elementary, Pierre 6 Hughes Jefferson Elementary, Sioux Falls 2 Minnehaha John Paul II Elementary, Sioux Falls 2 Minnehaha John Paul II Elementary, Sioux Falls 2 Minnehaha John Paul II Elementary, Nerdle 3 Davison Jolley Elementary, Vermillion 2 Clay Jones County Schools, Kanbal Rolley Schools, Kanbal Rolley Schools, Kanbal Schools, Kanbal Schools, Kanbal Schools, Kanbal Schools, Kanbal 3 Brule Knollwood Heights Elementary, Rapid City 7 Pennington Koch Elementary, Langford 1 Marshall Laura Ingalls Wilder, De Smet 1 Kingsbury Langford Elementary, Langford 1 Marshall Laura Ingalls Wilder, De Smet 1 Kingsbury Langford Elementary, Mitchell 3 Davison Lennox Schools, Lennox 2 Lincoln Lennox Schools, Lennox 2 Lincoln Lennox Middle School, Lennox 3 Davison Lincoln Elementary, Mitchell 3 Davison Lincoln Elementary, Witchell 3 Davison Lincoln Elementary, Witchell 3 Davison Lincoln Elementary, Witchell 3 Davison Daviso	Hayward Elementary, Sioux Falls.	2	Minnehaha
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Hillcrest Elementary, Brookings	Hermosa Elementary, Hermosa	7	Custer
Hillcrest Elementary, Brookings	Hill City Elementary, Hill City	7	Pennington
Hitchcock-Tulare Schools, Tulare. 4 Brown Holgate Junior High School, Aberdeen 4 Brown Holy Cross Elementary, Ipswich 4 Edmunds Horace Mann Elementary, Sioux Falls 2 Minnehaha Horace Mann Elementary, Rapid City 7 Pennington Hot Springs Elementary, Hot Springs 7 Fall River Howard Schools, Howard 1 Miner Huron High School, Huron 4 Beadle Huron Middle School, Huron 4 Beadle Hutterville Colony Elementary, Stratford 4 Berown Immaculate Conception, Watertown 1 Codington Iroquois Schools, Iroquois 4 Kingsbury Isabel Elementary, Isabel 5 Dewey Isna Wica Owayawa Elementary, Oglala 7 Shannon Jamesville Colony Elementary, Utica 3 Yankton Jefferson Elementary, Huron 4 Beadle Jefferson Elementary, Pierre 6 Hughes Jefferson Elementary, Sioux Falls 2 Minnehaha John F Kennedy Elementary, Sioux Falls 2 Minnehaha John F Kennedy Elementary, Sioux Falls 2 Minnehaha John Paul II Elementary, Sioux Falls 2 Minnehaha John Paul II Elementary, Witchell 3 Davison Jolley Elementary, Vermillion 2 Clay Jones County Schools, Kimball 3 Brule Knollwood Heights Elementary, Rapid City 7 Pennington Koch Elementary, Vermillion 2 Clay Jones County Schools, Kadoka 6 Jackson Kimball Schools, Kadoka 6 Jackson Kimball Schools, Kadoka 6 Jackson Kimball Schools, Kimball 3 Brule Laura B. Anderson Elementary, Sioux Falls 2 Minnehaha Laura Ingalls Wilder, De Smet 1 Kingsbury Laura Wilder Elementary, Sioux Falls 2 Minnehaha Laura B. Anderson Elementary, Sioux Falls 2 Minnehaha Laura B. Anderson Elementary, Rapid City 7 Pennington Koch Elementary, Lake Preston 1 Kingsbury Laura Wilder Elementary, Sioux Falls 2 Minnehaha Laura B. Anderson Elementary, Sioux Falls 2 Minnehaha Laura B. Anderson Elementary, Sioux Falls 2 Minnehaha Laura Ingalls Wilder, De Smet 1 Kingsbury Laura Wilder Elementary, Sioux Falls 2 Minnehaha Laura Ingalls Wilder, De Smet 1 Kingsbury Laura Wilder Elementary, Mitchell 3 Davison Lennox Schools, Lennox 2 Lincoln Lenox Elementary, Watertown 1 Codington Lincoln Elementary, Watertown 1 Codington Lincoln Elementary, Witchell 3 Davison			
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Joe Foss Alternative, Sioux Falls	Jefferson Elementary, Sioux Falls	2	Minnehaha
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John Harris Elementary, Sioux Falls	John F Kennedy Elementary, Siou	x Falls2	Minnehaha
John Paul II Elementary, Mitchell 3 Davison Jolley Elementary, Vermillion 2 Clay Jones County Schools, Murdo 6 Jones Kadoka Schools, Kadoka 6 Jackson Kimball Schools, Kimball 3 Brule Knollwood Heights Elementary, Rapid City 7 Pennington Koch Elementary, Milbank 1 Grant Lake Preston Elementary, Lake Preston 1 Kingsbury Langford Elementary, Langford 1 Marshall Laura B. Anderson Elementary, Sioux Falls 2 Minnehaha Laura Ingalls Wilder, De Smet 1 Kingsbury Laura Wilder Elementary, Mitchell 3 Davison Lennox Schools, Lennox 2 Lincoln Lennox Middle School, Lennox 2 Lincoln Leola Schools, Leola 4 McPherson Lincoln Elementary, Watertown 1 Codington Lincoln Elementary, Madison 1 Lake Lincoln High School, Sioux Falls 2 Minnehaha Little Eagle Elementary, Little Eagle 5 Corson Longfellow Elementary, Mitchell 3 Davison	John Harris Elementary, Sioux Fal	ls2	Minnehaha
Jolley Elementary, Vermillion	John Paul II Elementary, Mitchell	3	Davison
Jones County Schools, Murdo	Jolley Elementary, Vermillion	2	Clav
Kadoka Schools, Kadoka 6. Jackson Kimball Schools, Kimball Schools, Kimball 3. Brule Knollwood Heights Elementary, Rapid City 7. Pennington Koch Elementary, Milbank 1. Grant Lake Preston Elementary, Lake Preston 1. Kingsbury Langford Elementary, Langford 1. Marshall Laura B. Anderson Elementary, Sioux Falls 2. Minnehaha Laura Ingalls Wilder, De Smet 1. Kingsbury Laura Wilder Elementary, Sioux Falls 2. Minnehaha LB Williams Elementary, Mitchell 3. Davison Lennox Schools, Lennox 2. Lincoln Lennox Middle School, Lennox 2. Lincoln Leola Schools, Leola 4. McPherson Lincoln Elementary, Watertown 1. Codington Lincoln Elementary, Watertown 1. Codington Lincoln Elementary, Madison 1. Lake Lincoln High School, Sioux Falls 2. Minnehaha Little Eagle Elementary, Little Eagle 5. Corson Longfellow Elementary, Mitchell 3. Davison	Jones County Schools, Murdo	6	Jones
Kimball Schools, Kimball 3. Brule Knollwood Heights Elementary, Rapid City 7. Pennington Koch Elementary, Milbank 1. Grant Lake Preston Elementary, Lake Preston 1. Kingsbury Langford Elementary, Langford 1. Marshall Laura B. Anderson Elementary, Sioux Falls 2. Minnehaha Laura Ingalls Wilder, De Smet 1. Kingsbury Laura Wilder Elementary, Sioux Falls 2. Minnehaha LB Williams Elementary, Mitchell 3. Davison Lennox Schools, Lennox 2. Lincoln Lennox Middle School, Lennox 2. Lincoln Leola Schools, Leola 4. McPherson Lincoln Elementary, Aberdeen 4. Brown Lincoln Elementary, Watertown 1. Codington Lincoln Elementary, Watertown 1. Codington Lincoln Elementary, Madison 1. Lake Lincoln High School, Sioux Falls 2. Minnehaha Little Eagle Elementary, Little Eagle 5. Corson Longfellow Elementary, Mitchell 3. Davison	Kadoka Schools, Kadoka	6	Jackson
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Langford Elementary, Langford	Lake Preston Elementary, Lake Pr	eston11	Kingsbury
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Laura Wilder Elementary, Sioux Falls 2 Minnehaha LB Williams Elementary, Mitchell 3. Davison Lennox Schools, Lennox 2 Lincoln Lennox Middle School, Lennox 2 Lincoln Leola Schools, Leola 4 McPherson Lincoln Elementary, Aberdeen 4 Brown Lincoln Elementary, Watertown 1 Codington Lincoln Elementary, Madison 1 Lake Lincoln High School, Sioux Falls 2 Minnehaha Little Eagle Elementary, Little Eagle 5 Corson Longfellow Elementary, Mitchell 3 Davison	Laura Ingalls Wilder, De Smet	1	Kinasburv
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Lennox Schools, Lennox	LB Williams Elementary, Mitchell	3	Davison
Lennox Middle School, Lennox	Lennox Schools, Lennox	2	Lincoln
Leola Schools, Leola	Lennox Middle School, Lennox	2	Lincoln
Lincoln Elementary, Aberdeen	Leola Schools, Leola	4	McPherson
Lincoln Elementary, Watertown	Lincoln Elementary, Aberdeen	4	Brown
Lincoln Elementary, Madison	Lincoln Flementary Watertown	1	Codington
Lincoln High School, Sioux Falls	Lincoln Elementary, Madison	1	Lake
Little Eagle Elementary, Little Eagle	Lincoln High School, Sioux Falls	2	Minnehaha
Longfellow Elementary, Mitchell	Little Eagle Elementary, Little Eagl	e5	Corson
Longfellow Elementary, Sioux Falls	Longfellow Elementary, Mitchell	3	Davison
J = j,	Longfellow Elementary, Sioux Falls	s2	Minnehaha

School Name	Education Service Agency Region	County
Lowell Elementary, Sioux Falls	2	Minnehaha
	6	
Lyman Schools, Presho	6	Lyman
Madison Christian School, Madiso	n1	Lake
Madison Elementary, Huron	44	Beadle
Madison High School, Madison	1	Lake
Madison Middle School, Madison.	1	Lake
Mark Twain Elementary, Sioux Fa	ls2	Minnehaha
	and3	
May Overby Elementary, Aberdee	n44	Brown
McCook Central Elementary, Sale	m22	McCook
McCook Central Middle School, Sa	alem22	McCook
McIntosh Schools, McIntosh	5	Corson
	2	
	1	
	6	
	lin5	
McLaughlin High School, McLaugh	ılin55	Corson
McLaughlin Junior High School M	cLaughlin5	Corson
Medary Flementary Brookings	11	Brookings
Memorial Middle School Sigux Fa	lls2	Minnehaha
Menno Schools Menno	3	Hutchinson
Milbank High School Milbank		Grant
Milbank Middle School Milbank	1	Grant
Miller Flementary Miller	4	Hand
Mitchell Middle School Mitchell	3	Davison
	2	
	non3	
	7	
North Middle School Rapid City	7	Pennington
	che7	
	4	
Oalriche Schools Oalriche	7	Fall River
	ux Falls2	
Oldham-Pamona Schools Pamon	a1	l aka
OM Tiffany Flamentary Aberdeen	4	Prown
Onal Flementary Onal	7	nwordabcaM
	alls2	
Datrick Henry Middle School Sign	x Falls2	Minnehaha
Philip Schools Philip	7	
Piodmont/Stagobarn Flomontary	Piedmont7	Moado
Pierro Indian Learning Conter Die	rro 6	Ivicauc
Dina Didaa Elamantary Dina Dida	rre6e	Shannan
Pinedale Elementary Panid City	e7	Dennington
Plankinton Schools Plankinton		Auroro
Platta Flamenton, Platta	3	Charles Mix
Pleasent Valley School Floodrage		Maadu
Panid Valley Flamentary Basid C	ı1	Donnington
Rapid Valley Elementary, Rapid C	ity7	rennington
Redileid Schools, Redileid	4	Spink
kenberg ⊨iementary, kenner	2	iviinnenana

School Name	Education Service Agency Region	County
Robbinsdale Elementary, Rapid Ci	ty	Pennington
Robert Bennis Elementary, Brando	on2	Minnehaha
Robert Frost Elementary, Sioux Fa	lls2	Minnehaha
Roosevelt High School, Sioux Falls	s2	Minnehaha
Roslyn Schools, Roslyn		Day
Rutland Elementary, Rutland		Lake
	2	
	3	
School For The Deaf Combined, S	ioux Falls2	Minnehaha
Scotland Elementary, Scotland	3	Bon Homme
	7	
Simmons Elementary, Aberdeen	4	Brown
Simmons Middle School, Aberdeer	າ4	Brown
	1	
Sioux Valley Junior High, Volga	1	Brookings
South Canyon Elementary, Rapid	City7	Pennington
South Middle School, Rapid City	7	Pennington
	che7	
	[,] 7	
	ity7	
Spearfish Middle School, Spearfish	າ7	Lawrence
Springfield Elementary, Springfield	3	Bon Homme
St Joseph Cathedral School, Sioux	: Falls22	Minnehaha
St Mary's Elementary, Salem	2	McCook
St Mary's Schools, Dell Rapids	2	Minnehaha
	1	
	rre <u>6</u>	
Stevens High School, Rapid City	7	Pennington
Stickney Schools, Stickney	3 2	Aurora
Structured Teaching, Sloux Falls	2	Minnenana
	7	
Success, Sloux Falls	2	Ninnenana
Sulphur Creek Elementary, Mud B	utte	Ivieade
Summit Oaks Center, Sloux Falls		Minnenana
Tabar Flamentary Tabar	alls2	
Takini Schools Howes	3	Moado
Terry Pedlin Signy Falls	2	Minnehaha
Thunderhird Colony Creshard	4	Faulk
Timber Lake Public School Timber	r Lake5	 Daway
	v5	
Tschetter Colony Flementary Olive	et2	Hutchinson
Tyndall Flementary School Tynda	II3	Ron Homme
Union Center Flementary Union C	enter7	Meade
	Springs2	
Valley View Flementary Rapid Cit	y7	Pennington
Vandenberg Elementary Box Flde	r7	Pennington
Veblen Elementary, Veblen	1	Marshall
Volga Christian Elementary. Volga	1	Brookinas
Wakpala Schools, Wakpala	5	Corson

School Name	Education Service Agency Region	County
	4	Beadle
Washington Elementary, Pierre	6	Hughes
Washington Elementary, Madison.	1	Lake
	ılls2	
	n1	
	wn11	
	1	
	1	
Webster Elementary, Webster	1	Day
	3	
Wessington Schools, Wessington S	Springs3	Jerauld
West Central Elementary, Hartford	2	Minnehaha
West Central Elementary, Humbol	dt2	Minnehaha
West Central Junior High School, I	Hartford22	Minnehaha
Westside Elementary, Sisseton	1	Roberts
White Lake Schools, White Lake	3	Aurora
White River Schools, White River	6	Mellette
Whitewood Elementary, Whitewoo	d7	Meade
	2	
Williams Middle School, Sturgis	7	Meade
Winner Elementary, Winner	6	Tripp
Winner High School, Winner	66	Tripp
Winner Middle School, Winner	6	Tripp
Wolf Creek Colony Elementary, Ol	ivet2	Hutchinson
Wolf Creek Elementary, Pine Ridge	e7	Shannon
Wolsey/Wessington Schools, Wols	ey4	Beadle
Woonsocket Elementary, Woonsoc	cket33	Sanborn
Yankton Christian School, Yanktor	ı3	Yankton

Appendix 3
Schools Participating In Height & Weight Survey

